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RESEARCH EFFORT TO DEVELOP OPERATIONAL IMPROVEMENTS TO BIOLOGIC--ETC(U)
MAY 76 W H SMITH

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REPORT NUMBER 8 ✓

RESEARCH EFFORT TO DEVELOP OPERATIONAL IMPROVEMENTS
TO BIOLOGICAL RECORDS *programs*

ANNUAL REPORT
1 September 72 - 30 August 73

ACT TECHNICAL STAFF
WILLIAM H. SMITH
Principal Investigator

15 May 1976

Supported by

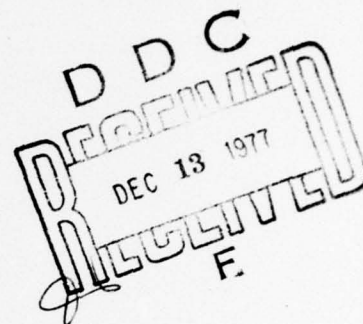
U.S. ARMY MEDICAL RESEARCH & DEVELOPMENT COMMAND
Washington, D.C. 20314

Contract No. DADA17-68-C-8106 ✓

Advanced Computer Techniques Corporation ✓
1501 Wilson Blvd., Arlington, Virginia 22209

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FOREWARD

The present contractual effort is a continuation of a research project initiated in August, 1967.

This research is conducted under the overall cognizance of Col. William E. Rothe, V.C., Director of the Division of Medicinal Chemistry, and is conducted under the immediate direction of Lt. Col. Kenneth E. Kinneman, Head of the Department of Biology.

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I. INTRODUCTION

Advanced Computer Techniques (ACT) has been providing consulting services to Walter Reed Army Institute of Research (WRAIR) staff in the design, implementation, and documentation of automated systems for the analysis of data resulting from research in the Antimalarial Drug Screening Research Program.

During the contractual period covered by this report the following efforts were enacted:

- A. Continued conversion of current biology systems to the CDC 3500.
- B. Developing a system to interface Biology and Compound Inventory Systems on CDC3500 with Chemical Structures System on IBM 7090/94.
- C. Design of new biology system for CDC3500
- D. Providing production assistance as required.

II. OBJECTIVES

- A. Continued conversion of Biology Systems from IBM 7090/94 COBOL to ANSI COBOL for CDC3500.
- B. New systems designed and implemented as required due to changes in hardware or research laboratory reporting procedures.
- C. Design new biology system for CDC3500 using disk storage and multi-programming capabilities.

III. ACCOMPLISHMENTS DURING THE YEAR

- A. Conversion of current biology systems to new hardware.
 - 1. Utility search programs converted from IBM 7090/94 COBOL to ANSI COBOL for the CDC3500.
 - 2. Update programs for following systems converted to ANSI COBOL for the CDC3500, Rane, Radiation, Thompson, Antifolic and Liverpool.
- B. Developed system to interface Biology and Compound Inventory systems processed on the CDC3500 with Chemical Structures System on the IBM 7090/94.

- C. Analysis and design of new biology system for the CDC3500 was started.
- D. Maintenance service provided for current biology systems as required.
- E. Production assistance provided during the year.

IV. CONCLUSIONS

At the end of the contract year, the update and utility search programs for the following systems were operational at WRAIR: Rane, Radiation, Thompson, Antifolic and Liverpool. A new interface system was operational at Fort Lee, Virginia. Analysis and design of new disk oriented biology system for the CDC3500 was started.

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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER 8	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) <u>6</u> Research Effort to Develop Operational Improvements to Biological Programs.		5. TYPE OF REPORT & PERIOD COVERED Annual Report (for Period Sept. 72 - Aug. 73)
7. AUTHOR(s) <u>10</u> William H. Smith		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Advanced Computer Techniques Corporation 1501 Wilson Blvd. Arlington, Va. 22209		8. CONTRACT OR GRANT NUMBER(s) <u>15</u> DADA17-68-C-8106
11. CONTROLLING OFFICE NAME AND ADDRESS U.S. Army Medical Research and Development Command, Washington, D.C. 20314		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 637T3A <u>17</u> 3A663713D829 <u>100</u> 145
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) <u>11</u> 15 May 76		12. REPORT DATE May 15, 1976
		13. NUMBER OF PAGES <u>12</u> 6 P.
		15. SECURITY CLASS. (of this report) Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Approved for public release; distribution unlimited.		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Biology, Information Processing, Chemical Structure, Computer Information System.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Synopsis of activities performed by Advanced Computer Techniques Corporation in developing new biology test systems.		

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